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E. WASHBURN HOPKINS, AND CHARLES C. TORREY

Professor in Yale University, New Haven.

Professor in Yale University, New Haven.

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CONTENTS

OF

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Page
CONTRIBUTIONS TO COMPARATIVE PHILIPPINE GRAMMAR, II.—By FRANK
R. Blake, Ph.D., Johns Hopkins University, Baltimore, Md 199
AL-ḤASAN IBN IBRĀHĪM IBN ZŪLĀĶ.—By RICHARD GOTTHEIL, Professor
in Columbia University, New York City 254
THE ENGLISH-ROMMANY JARGON OF THE AMERICAN ROADS.—By J. DYNELEY PRINCE, Professor in Columbia University, New York 271
VISITING SINS UPON THE INNOCENT.—By Dr. THEODORE C. FOOTE, Johns Hopkins University, Baltimore, Md
METRICAL ANALYSIS OF THE Pali ITI-VUTTAKA, A COLLECTION OF DISCOURSES OF BUDDHA.—By JUSTIN HARTLEY MOORE, A.M., Columbia University, New York
On Certain Persian and Armenian Month Names as Influenced by the Avesta Calendar.—By Dr. Louis H. Gray, Newark, N. J. 331
On a Pahlavi Bowl-Inscription deciphered by the late E. W. West.—Presented by Professor A. V. Williams Jackson, Columbia University, New York
EPIGRAPHIC NOTES.—By CHARLES C. TORREY, Professor in Yale University, New Haven, Conn
Some Hebrew and Phoenician Inscriptions.—By Hans H. Spoer, Ph.D., American School of Archaeology, Jerusalem
ASPECTS OF THE VEDIC DATIVE.—By E. WASHBURN HOPKINS, Professor in Yale University, New Haven, Conn
Proceedings at Philadelphia, Pa., April 4 and 5, 1907 407
Attendance 407
Correspondence
Necrology
Report of the Treasurer
Report of the Librarian
Report of the Editors 416

On Certain Persian and Armenian Month-Names as Influenced by the Avesta Calendar.—By Dr. Louis H. Gray, Newark, N. J.

THE influence of the Zoroastrian calendar, as of Zoroastrianism itself, was far-reaching, extending not only to the Transoxian regions of Chorasmia and Sogdiana, but to Armenia and Cappadocia, even as the Iranian faith had spread. This is, indeed, no new discovery-it has been known at least since 1836, when Benfey and Stern, in their Ueber die Monatsnamen einiger alter Völker, inbesondere der Perser, Cappadocier, Juden und Syrer, 76-120, themselves following Reland's suggestion of exactly two centuries ago (Dissertationes miscellaneæ, ii. 129): "examinanda Tibi hæc Cappadocica mensium nomina, lector, exhibeo in iis umbram mensium Persicorum mihi videor detexisse," demonstrated that the Cappadocian month-names were borrowed, one and all, from the Zoroastrian calendar. Furthermore, Lagarde, in his Gesammelte Abhandlungen, 9, 163, and Hübschmann, in various rubrics of his Armenische Grammatik, i., have shown the dependence of certain Armenian month-names on the Avesta-Pahlavi system; while Sachau's translation of al-Biruni's Chronology of Ancient Nations, 52-53, 56-57, 82-83, 220-225, 384, 425-426, gives the names of the months and other calendrical data of the inhabitants of Chorasmia, Sogdiana, Seistan, Bukhārīk (?), and Qubā. An additional list of Sogdian monthnames is given in three fragments of the Turfan manuscripts published by F. W. K. Müller in his Die "persischen" Kalendarausdrücke im chinesischen Tripitaka (Sitzungsberichte der königlich preussischen Akademie der Wissenschaften, 1907, 458-465). The Armenian month-names are given in order by Dulaurier, in his Récherches sur la chronologie arménienne, 10-14, and the same scholar records not only the Armenian calendar based on the Julian system and dating probably from the period of Constantine the Great (pp. 37-38), as well as

¹ The study of Hagopian on the Armenian months in the Armenian periodical Banasēr for 1900 has unfortunately been inaccessible to me.

the month-names of Azaria of Julfa, who flourished early in the seventeenth century (pp. 115-117), but also an Albanian menology of uncertain date (p. 167). There seems to be, however, no discussion in which these scattered data are brought together and summarized, even Marquart, in his Untersuchungen zur Geschichte von Eran, ii. 198-201, 213-215, and Ginzel, in his section on the Persian calendar (Hundbuch der mathematischen und technischen Chronologie, i. 275-309), omitting any detailed comparison. In like manner, neither Sachau, in his Zur Geschichte und Chronologie von Khwārizm (Sitzungsberichte der Wiener Akademie der Wissenschaften, phil.-hist. Klasse, lxxiii. 471-506), nor Tomaschek, in his Centralasiatische Studien, i. Sogdiana (ib. lxxxvii. 67-184), discusses the calendar of these peoples. Indeed, so vague is our knowledge of the Transoxian language, and so meagre the remains, that any attempt to study the month-names must be largely a matter of conjecture and hypothesis. This difficulty is increased in the case of the Seistanian calendar, which may be Scythic (cf. Justi, in Grundriss der iranischen Philologie, ii. 489), and of the Bukhārīk (?) and Qubān systems, both of which, like the Chorasmian and Sogdian, are Transoxian. It is at least clear, however, that the Chorasmian calendar was borrowed from the Avesta system before the invasion of Alexander the Great, and the Sogdian before the revolt of Diodotus in the third century B. C. (Marquart, ii. 201).

Contrariwise, the Zoroastrian calendar, or possibly some system akin to the Old Persian, may perhaps have been current in lands where Mohammedan chronology now rules. I allude particularly to the Baluchi and Afghan calendars. In Baluchistan the mode of reckoning time is entirely Islamitic (Mockler, Grammar of the Baloochee Language, 120), while in Afghanistan we find two systems of month-names. One of these, in frequent use along the eastern frontier between Afghanistan and India, is of Indian origin (Trumpp, Grammar of the Paštā, 364-365), while the other is borrowed from the Mohammedan menology and is as follows (ib. 363-364):

Afghan	Mohammedan
Hasan Husain, "(the month of) Hasan and	
Husain"	Muḥarram
Safarah	Şafar

Vrunba'ī Xōr, "First Sister"	Rabī'-al-awwal
Dvayamah Xor, "Second Sister"	
Dreyamah Xor, "Third Sister"	Jumād-al-awwal
Caloramah Xor, "Fourth Sister"	Jumād-ath-thānī
Da Xudãe Miyāst, "Month of God"	Rajab
Da Šō Qadr Miyāšt) "Month of the Night of	-
Da Barāt Miyāšt) Power"	Ša'bān
Rōzah, " "Fast "	Ramadan
Da Vrūkai Axtar Miyāšt / "Month of the	·
Da Vārah Axtar Miyāšt, ² ∫ Lesser Fast"	Śawwāl
Miyāni Xāli Miyāšt,2 "Intermediate Month3"	Dhu-l-Qa'dah
Da Loe Axtar Miyāšt, "Month of the Greater	
Fast "	Dhu-l-Hijjah

In the preparation of the article on the Persian calendar for Dr. James Hastings's forthcoming Dictionary of Religion and Ethics, my attention was directed to this problem the more since I had failed to evaluate it in my section on the same subject in the Grundriss der iranischen Philologie, ii. 675-678. While, in a sense, this present study is rather a summary and collocation of results previously attained by others than a presentment of independent researches, yet it has seemed to me that a collection of scattered data might, when combined, throw an increased light on the Avesta calendar itself; and in one or two points, minor though they be, I have perhaps succeeded in making some advance. It is also my pleasant duty to acknowledge with gratitude the generous assistance of M. A. Meillet, of the Collège de France, Paris, in his reply of March 3, 1907, to my queries concerning the Armenian month-names; to the Rev. Dr. Thomas P. Hughes, of Brooklyn, who on February 20, 1907, responded with equal kindness to my request for information concerning the names of the Afghan months; and to Messrs. N. Nazarian and S. Surenian, of New York, who most unselfishly and courteously aided an entire stranger in determining the meaning of the Armenian day-names.

¹ The translation of this and the four names following were kindly supplied me by the Rev. Dr. Thomas P. Hughes, the well-known Afghan scholar.

² These forms are also due to Dr. Hughes.

 $^{^3}$ Between "the lesser fast" of ' $\overline{\rm Id}$ -al-fitr and the "greater fast" of ' $\overline{\rm Id}$ -ad-duhā'.

I. Fravartin (March-April). None of the calendars affiliated with the Avesta-Pahlavi system show a month-name similar to this, which is transcribed Φαρουαρτης, Φαρβαρδιν, and Φαρφαρδιν by Byzantine writers on the Iranian calendar, although the nineteenth day of each month, which bears the same name in the Zoroastrian calendar, is termed فروق in Sogdian and رجين in Chorasmian. The month is called, instead, simply "New Year," the appellation being borrowed from an Avesta *nava sarəδa, "new year" (Chorasmian ناوسرذيبج, نوسنون, Sogdian ناوسرذيبج, نوسنون, Bukhārīk (?) نرسرد, Armenian Nawasard, Albanian Nawasar-The form of the name is of the more interest in that it represents an older form even than the Pahlavi (sāl, "year," cf. Persian سال, and may thus be compared with the Ossetic särde, särdä, särd, sard, "summer" (Avesta saraδa, 'year"; cf. Hübschmann, Etymologie und Lautlehre der ossetischen Sprache, 55; idem, Armenische Grammatik, i. 202; Horn, Grundriss der neupersischen Etymologie, 153; Salemann, in Grundriss der iranischen Philologie, i. a, 267). To the same stage of borrowing doubtless belongs the Talmudic נוסרדי (WZKM. viii. 366), the term applied by the 'Abodah Zarah to a Persian festival (Levy, Neuhebräjsches und chaldäisches Wörterbuch, iii. 389), as well as the νέον σάρδιν το νέον έτος of Johannes Lydus xxxix. 13. The Avesta-Pahlavi form, however, is represented in the Cappadocian calendar by 'Αρταιστην and its variants (Benfey and Stern, Ueber die Monatsnamen einiger alter Völker, 85-89; otherwise, Marquart, i. 63). The Seistanian calendar calls the first month کوان, which may possibly be in honor of the Kavāta of the Avesta (Yasht xiii. 132; xix. 71), the legendary founder of the Kayanian Dynasty (Justi, Iranisches Namenbuch, 159), whose home was in Seistan (Yasht xix. 65 sqq.; cf. Geiger, Ostiranische Kultur, 99-100, 108, 411). The calendar of Azaria of Julfa calls the first

On these references see Gray, Byzantinische Zeitschrift, xi. 468-472, and the same writer's article in Avesta, Pahlavi, and Ancient Persian Studies in Honour of . . . Sanjana, 167-175, together with the citations there given.

^{2&}quot;Perhaps the word bears some relation to i, i, e. Bukhārā," Sachau, 393; otherwise, but less plausibly, Marquart, ii. 199.

month *Šams*, a loan-word from the Arabic شهيس, "sun," but the Qubān¹ خلي is unclear to me.

II. · Artavahišt (April-May). This is represented as a monthname only by the Chorasmian إردوست and the Cappadocian 'Apaiora and its variants (Benfey and Stern, 89-92), although as the name of the third day of each month it finds equivalents in the Chorasmian اردوست (variant اردوشت) and in the Sogdian The Greek writers transcribe the name by 'Αρτιπεσστ, 'Αρτιπεεστ, 'Αρδεμπεεστι, and 'Αρδεμπεας. The Bukhapparently represents an Avesta *paiti-nava-sarəδa, "after the new year," but the Sogdian برجن (variants جرجن), like the Seistanian جرجن), is unclear. The Armenian calendar likewise diverges from the Avesta, the corresponding month of its system being named Hori, "second month," a derivative of the Georgian ori, "two," while Azaria of Julfa calls this mouth Adam in honor of the father of the human race. In Albanian the second month was termed $Tul\bar{e}n$, which, if the Armenian t was pronounced d at the time of the formation of the Albanian calendar, bears a strong, though perhaps fortuitous, resemblance to the Albanian delene, "juniper" (Meyer, Etymologisches Wörterbuch der albanesischen Sprache, 65). The Quban اويون is unclear to me.

¹ "Kubā was the second largest town of Farghāna, not far from Shāsh," Sachau, 393.

² My thanks for this identification are due to M. Meillet. On the general problem of Caucasic loan-words in Armenian, cf. Hübschmann, Armenische Grammatik, i. 396-398.

Hebrew الات (April-May), the divergency of time being doubtless due to retrogression of the calendar at the time when the Sogdians adopted this month-name. The Bukhārīk (?) سافرال (doubtfully compared by Marquart, ii. 200, with the twelfth Old Turkish month أرسال (جقشاباط), Seistanian ارسال and Albanian Namogn, are unclear to me. The Armenian Sahmi, however, denotes simply "third month," being derived from the Georgian sami, "three," while Azaria of Julfa's Šbat is simply the Hebrew

IV. Tîr (June-July). The month Tîr, transcribed Τυρμα, Tovopua in Greek, is represented in the Chorasmian calendar by while for the day of the same name, the thirteenth of each month, the Chorasmian and Sogdian systems have (read, with the variant, جيرى and تيش respectively. The Sogdian month-name corresponding to Tir is بساكنج) بساك بساك الماكنج زنا..., پساك, بساك, بساك, بساك, بساكنم identical with the Persian بساك, "garland of flowers." The Scistanian تيركيانوا, like the Armenian Trē (Lagarde, Gesummelte Abhandlungen, 9) and the Cappadocian Τωρω and its variants (Benfey and Stern, 94-95), is clearly derived from the Pahlavi Tir. The Albanian name of the fourth month, Yile, may possibly be a translation of the old Iranian term, if it may be connected with the Albanian at, 7t, "star" (Meyer, 460). The Bukhārīk (?) لوليا, and Azaria of Julfa's Nazai are unclear to me. The name Tir has been borrowed as a planet-name, it is interesting to note, in the Chinese (Cantonese pronunciation) Tit.

¹ Here again my thanks are due to M. Meillet.

^{&#}x27;On the confusion of Tištrya, the dog-star, with his original opponent Tīr. Mercury, cf. Spiegel's translation of the Avesta, iii. introd. 21-23; Darmesteter, Le Zend Avesta, ii. 411-413; Nöldeke, Persische Studien, i. 33-36; Justi, Iranisches Namenbuch, 325; and Bartholomae, Altiranisches Wörterbuch, 652, and the references there given. On Chorasmian j' for an original Iranian t, cf. Nöldeke, loc. cit. As Indian parallels may be cited such forms as Prakrit ciţţhaī, Uriya cidā = Sanskrit tişthati, "stands" (Pischel, Grammatik der Prākrit-Sprachen, § 216; Gray, Indo-Iranian Phonology, § 223).

V. Amerodat (July-August). The Zoroastrian month Amerodat, transcribed Μερτατ in Greek, is represented by the Chorasmian هيداد (variant هيداد), while for the seventh day of each month, which bears the same name, the Chorasmian and Sogdian calendars have مبرده and مبداذ respectively. The Cappadocian equivalent is 'Αμαρτοτ and its variants (Benfey and Stern, 95-97), while the corresponding Armenian month is Kidoc, "(the month) of crops," a derivative of k'adel, "to gather" (Dulaurier, Récherches sur la chronologie arménienne, 12). As M. Meillet kindly informs me, "it is true that, at the period of the origin of the Armenian era, it corresponded to the month of November, but the name existed previously and was in use in an earlier system." Azaria of Julfa's name for the fifth month, Gamar, is merely a loan-word from the Arabic , "moon." The اشناخندا اشناخنداه (variants) اشناخندا اشناخندا, by Marquart, ii. سرينوا by Marquart, ii. 199), Bukhārīk (?) اوريس, and Albanian Bokavoh, the corresponding names of the fifth month, are unclear to me. Quban J is merely the East Turkish name of the same month. VI. Šatvaīrō (August-September). To the name of this month, which is transcribed Σαχριουρ and Σαρεβαρ in Greek, corresponds the Chorasmian اخشريوري, the homonymous day, the fourth of each month, being termed اخشريوري in Chorasmian and خستشور in Sogdian. The Cappadocian derivative from the Zoroastrian month-name is Ξανθηρι and its variants (Benfey and Stern, 97-101). The Sogdian name of the month, مربعندا ,مرخندا variants) مؤيخندا عندا ,مرخندا (غزانانج variant) خزانانج is shown by the Turfan (مريحندا to have been "autumn month"; and to have been equivalent to October), the eighth month in the short-lived calendar introduced by Yazdagird III. (Hyde, Historia Religionis Veterum Persarum, 197). The other names of the sixth month, Seistanian مرينوا, (read مرينوا by Marquart, ii. 199), Bukhārīk (?) يسن, Quban نر, Armenian Arac, Azaria of Julfa's Nadar,

and Albanian Mare, are unclear to me.

VII. Mitro (September-October). This month-name, transcribed in Greek Μεχερμα and Μεχιρ, is represented in the Persian calendars, curiously enough, only by the Quban , the Chorasmian and Sogdian equivalents being ارمرى and المرى (variants وعكان, نغكان, نغكان) respectively. The former is of unknown signification to me. But the latter, reflected by the Chorasmian فيغ, the name of the sixteenth day of each month, is shown by the Turfan form بفكاني to signify "god-month" (on f as a dialectic Persian development of b, see below, under IX.; and on baga, baya=Mithra, see Marquart, i. 64; ii. 129, 132-134). The name Mitro is represented in Cappadocian by Μιθρι and its variants (Benfey and Stern, 101-102) and in the Armenian calendar by Mehekan (Hübschmann, 194; Lagarde, 9), while Azaria of Julfa represents it by Tir, i. e., Tir (see above, under IV.), the discrepancy being due, perhaps, to the retrogression of the calendar. The remaining names of the seventh month, Seistanian , or Bukhārīk (?) يسك, and Albanian Bdckuē, are unclear to me. The Iranian Mihr appears as a borrowed planet-name in the Chinese (Cantonese pronunciation) Mit. It is likewise the name of the eighth day of each month in the Armenian calendar.

VIII. Āvān (October-November). This month, transcribed 'Aπαν and 'Aπανμα in Greek, is exactly represented by the Sogdian الباني, although its name for the corresponding day of each month, the tenth, is الجنري, which was also applied to Āvān as the tenth day of each month, but I am not certain of its meaning. It is probable, however, that it is synonymous with the corresponding Old Persian month Ādukani, "(month of) canal-digging" (cf. Marquart, ii. 198). In Cappadocian the form of Āvān is 'Απομενα and its variants (Benfey and Stern, 102–108), while in Armenian the eighth month is the "sunmonth," Areg (Hūbschmann, 424). The other month-names, Seistanian عنادية, Bukhārīk (?) حالية (which can scarcely be the Arabic عنادية, "blood," "vendetta," "death" [cf. Meyer, 136]), and Azaria

of Julfa's Dam, are unclear to me. It might indeed be suggested that the latter name is the Persian "breath," "wind," and that it was adopted in allusion of the change of the monsoon from the northeast to the southwest at this season of the year; but the uncertainty of the entire problem, and Julfa's inland situation, near Isfahan, render such an explanation very hazardous.

IX. Ātarō (November-December). The Chorasmian name of this month, transcribed 'Αδαρ, 'Αδερ, 'Αδερμα in Greek, is 31 (read ادو, ادی, variants ادر, ادی, and the ninth day of each month, which bears the same name in the Zoroastrian calendar, is called in Sogdian. The Sogdian اتس in Sogdian. The Sogdian name of the ninth month is فوغ (Turfan form بوغيم), a dialectic form corresponding to Avesta baya, Old Persian baga, "god," represented in New Persian by the Ferghanish فغ "idol" (Horn, in Grundriss der iranischen Philologie, i. b, 78). The Cappadocian equivalent is $A\theta \rho a$ and its variants (Benfey and Stern, 108-109), while the Armenian name of the ninth month, Ahekan, is likewise derived from the Avesta-Pahlavi appellation (Hübschmann, 95; Lagarde, 9). Azaria of Julfa's name, Hamir, is the Arabic امير, but the Seistanian اكيازوا (unless read, with Marquart, i. 64; ii. 199, ازگیانوا, "month of fire-times"), the Bukhārīk (?) مواً, the Qubān بوأ, and the Albanian Bondokē, are unclear to me.

X. Dīn (December-January). This month-name, transcribed Δημα and Νται (ντ=δ, as in Modern Greek) in Greek, represents the Avesta daδnšō, "(month) of the Creator" (Gray, in Grundriss der iranischen Philologie, ii. 677, and the references there given), and is, therefore, equivalent to Pahlavi Aūharmazd and Avesta Ahura Mazda. It is, accordingly, accurately represented by the Chorasmian (variant (variant year)), while the first day of each month, Aūharmazd in the Zoroastrian calendar (corresponding to Aramazd, the fifteenth day of each Armenian month), is called (carbon in Chorasmian and carbon in Sogdian, and is borrowed in the Chinese planet-name Wun-mut-sī (Cantonese pronunciation). The eighth, fifteenth, and twenty-third days of each month, termed Dīn pa Ātarō, Dīn pa Mitrō, and

Din pa Din in Pahlavi, are called دنو in Chorasmian and Sogdian respectively; and the Iranian name is also closely followed by the Cappadocian Δαθουσα and its variants (Benfey and Stern, 109-110). The Sogdian name for the tenth month is ميش بوغيج, مرسافوغ, مسائوغ, (variants), "great god," the fitting appellative of Ormazd, especially as his month comes after that of Ataro, of whom he is, in Avesta mythology, the father (cf. Yasna xxxvi. 3; lxv. 12; Siroza i. 9; ii. 9; Yasht xix. 46, 49; Gah i. 9).¹ The word فوغ has already been discussed. The term is to be equated with Avesta, Pahlavi, Gabrī mas, "great," Nāyīnī mes, Samnānī mesīn (Horn, in Grundriss der iranischen Philologie, i. b. 17; for another interpretation, see Marquart, ii. 198-199). The Bukhārīk (?) סיון is apparently the Hebrew סיון, the ninth month, calendrical retrogression again playing a part. The Aram of Azaria of Julfa is merely the name of the eponymous hero of Armenia. The Seistanian كريشت, Quban عماه, and Albanian Oreli are unclear to me; while the Armenian Marer (for *Marear) has been equated with the Avesta Mailyāirya, "midyear" (Marquart, ii. 205).

¹ Cf. the Old Persian sequence of the months $\bar{\Lambda}\theta$ iyādiya, "worship of fire," and Anāmaka, "nameless," (i. e. sacred to the ineffable Auramazda).

of Yasht xiii. 106, 108, who may possibly have been the eponymous hero of the Qāren dynasty, which played a prominent part in the Arsacid and Sassanid periods (Darmesteter, Le Zend-Aresta, ii. 536, note 212); while the Armenian name of the eleventh month, margae, seems to mean "(month) of meadows," although Marquart, i. 64, dissents from this etymology, considering it a loan-word from the Old Persian month-name (preserved only in the New Susian text, Bh. iii. 43, under the form Markazanaš) Margazana, "brood of birds." The Sogdian form of Vohūman was Vunxān, preserved also in the Chinese loanname of the planet Mars, Wen-Hon (Cantonese pronunciation).

XII. Spendarmat (February-March). The name of the twelfth month, transcribed 'Ασφανδαρηματ, 'Ασφανταρηματ, 'Ασφανταρ, and Αὐφανταρ in Greek, is represented by اسبنداریجی in Chorasmian, while the fifth day of each month, which bears the same name in the Zoroastrian calendar, appears in Chorasmian in Sogdian. The Sogdian سبندارهی and as سبندارهی is very uncertain (اخشوميم , خشوص , حسوم in meaning, although it is plainly traceable in the full Chorasmian name for this month اسبندار بحبى فوخشوم. We know that "on the last day of this month the Sughdians cry over those who died in past times, they lament over them and cut their faces. They lay out for them dishes and food, as the Persians do in Farwardajan. For the five days, which are the ήμέραι κλοπιμαΐαι to the Sughdians, they fix at the end of this month" (al-Biruni, Chronology of Ancient Nations, tr. Sachau, 222; cf. 57). Hazardous though it be to operate with such scanty material, it may be suggested that in خشوم, if it be an abbreviation of فوخشوم, we may possibly have a derivative of the Sogdian and Chorasmian verb corresponding to the Modern Persian بخشودي, "forgive" (for Sogdian f=Modern Persian b, see above, under IX.) and to the Judeo-Persian בובֿשאיך (cf. Horn, Grundriss der neupersischen Etymologie, 43). The Cappadocian equivalent of Spendarmat is Σονδαρα and its variants (Benfey and Stern, 113-115), while the Armenian name of the corresponding month is *Hrotic*, a loan-word from the Pahlavi *fravartakān, "the (five epagomenal days) dedicated to the Fravašis" (Hübschmann, 184–185; Lagarde, 163). The Seistanian سارو (unless it be the Modern Persian سارو, "starling"), Bukhārīk (?) دريمنكان, Qubān اوناه, Azaria of Julfa's Nirhan, and Albanian Baxneai are unclear to me.

The names of the days in the Chorasmian and Sogdian calendars show many instances of borrowing from the corresponding day-names of the Zoroastrian system. Though the list of the Chorasmian and Sogdian names of the days may conveniently be found both in Sachau's translation of al-Biruni's Chronology of Ancient Nations, 56-57 and in Ginzel's Handbuch der mathematischen und technischen Chronologie, i. 307-308, the following list of day-names, restricted to appellations borrowed directly from the Zoroastrian calendar, may be found of use: 1. Pahlavi Auharmazd=Chorasmian جرمثور, Sogdian خرمثور, 3. Pahlavi Artavahišt = Chorasmian اردوشت , Sogdian ارداخوشت; 4. Pahlavi Šatvaīrō = Chorasmian' ارداخوشت, Sogdian خستشور; 5. Pahlavi Spendarmat = Chorasmian اسبندارججى; 6. Pahlavi Horvadat = Chorasmian مرداذ, Sogdian مرداذ (?); 7. Pahlavi Amerodat=Chorasmian هدان, Sogdian هدان; 8, 15, 23. Pahlavi Dīn (pa Ātarō; pa Mitrō; pa Dīn)=Chorasmian دني, Sogdian ست (see above, under X.); 9. Pahlavi Ātarō=Chorasmian , (read ,), Sogdian اخير; 11. Pahlavi Xūršēt=Chorasmian اخير, Sogdian ماخ ; 12. Pahlavi Māh=Chorasmian ماه , Sogdian ماخ ; 13. Pahlavi Tīr=Chorasmian جيري, Sogdian تيش; 14. Pahlavi Gōš=Chorasmian غوشت, Sogdian غشن; 17. Pahlavi Srōš=

¹ This suggests a still more daring tentative explanation of the Sogdian خشن than the one very timidly ventured above, namely, that it represents a derivative of Avesta xšvaš, "six," xštūm, "for the sixth time," as the five epagomenal days plus the last day of the twelfth month for the connecting link. Marquart, ii. 198, however, connects the name with the Avesta xšnaoma "contentment."

² Allusion may be made in this connection to the names of months and days substituted by Yazdagird III. for the old religious appellations. The list may conveniently be found in Hyde, 195–200, with full elucidation, and is, therefore, omitted here.

The names of the remaining Chorasmian and Sogdian days are too uncertain in meaning for discussion here; and in like manner, the Sogdian names of the five epagomenal days (al-Biruni, 57) and the Chorasmian names of the six gāhanbārs, or festivals in the course of the year (al-Biruni, 225, cf. 425-426; and Roth, ZDMG. xxxiv. 716-717, even when compared with their Zoroastrian equivalents, require a deeper investigation, and probably a far greater knowledge of the living dialects of these regions than we at present possess.

Like the Avesta, Chorasmian, and Sogdian calendars, the Armenians also named the days of their months, instead of numbering them, as among the ancient Persians (cf., on the possible adoption of the Avesta system of day-names by the Achæmenians, West, Sacred Books of the East, xlvii. introd., pp. 44, and Academy, xlix. 348; Marquart, ii. 210-211). Although Christian and geographical appellations are found among them, Zoroastrian influence is evident in at least five names: Mihr, the eighth day (corresponding to Mitro, the seventh month and sixteenth day of each month in the Zoroastrian calendar); Aramazd, the fifteenth day (corresponding to Aūharmazd, the first day of each month, and to Din, the tenth month and twenty-fourth day of each month in the Zoroastrian calendar); Anahit, the nineteenth day (corresponding to the well-known goddess Anahita of the Avesta); Npat, the twenty-sixth day (corresponding to the Indo-Iranian water-deity Apam Napat, but confused with the name of a mountain in Armenia, cf. Spiegel, Eranische Alterthumskunde, i. 173, ii. 54); and

vol. xxviii. 23

Vahagn, the twenty-seventh day (corresponding to Vahrām, the twentieth day of each month in the Zoroastrian calendar). The list of the Armenian day-names, which seems to be little known, is given as follows in Alishan's Armenian "Ancient Faith of the Armenians," 143-144, together with the supplementary translation of some of the terms furnished me by the courtesy of Messrs. Nazarian and Surenian: 1. Areg ("sun," corresponding in name to the eighth Armenian month and the eleventh Avesta day); 2. Hrand ("earth mixed with fire"); 3. Aram (identical with the name of the tenth month of Azaria of Julfa); 4. Margar ("prophet," i. e., St. Sylvanus; cf. Acts, xv. 32); 5. Ahrank ("half-burned"); 6. Mazdel or Mazt'el; 7. Astlik ("Venus"); 8. Mihr ("Mithra"); 9. Jopaber or Xrovaber ("tumultuous"); 10. Murc ("triumph"); 11. Erezhan or Erezkan ("hermit"); 12. Ani (name of an ancient fortified city of Armenia); 13. Parxar; 14. Vanat ("host, refectioner of a monastery"); 15. Aramazd ("Ahura Mazda"); 16. Mani ("beginning"); 17. Asak ("beginningless"); 18. Masis (the Armenian name of Mount Ararat); 19. Anahit ("Anāhita"); 20. Aragac (name of a mountain in Armenia); 21. Gorgor or Grgur (name of a mountain in Armenia); 22. Kordi or Korduik' (a district in ancient Armenia regarded as the original home of the Kurds); 23. Cmak ("east wind" or "cool places in forests"); 24. Lusnak ("half-moon"); 25. Cron or Spiur ("dispersion"); 26. Npat ("Apām Napāt"); 27. Vahagn ("Vahrām"); 28. Sēin ("mountain"); 29. Varag (name of a mountain in Armenia); 30. Gišeravar ("the planet Venus after sunset"). Both in this calendar and in Azaria of Julfa's system the five epagomenal

days are termed simply Aveleac, "redundant, superfluous."